

Claims

1. A radio frequency identification (RFID) based security system comprising:
at least one sub-system;
at least one check point with at least one RFID tag; and
at least one central computer with wireless communications means;
wherein
said at least one sub-system further comprises:
at least one security appliance with at least one RFID tag;
at least one reader device associated with said at least one security appliance; and
at least one mobile device acting as a radio frequency link for said at least one security appliance and said at least one reader device.
2. A system according to Claim 1, said at least one security appliance comprises a firearm, a baton, an incapacitating spray, a stun gun, a badge or a warrant card.
3. A system according to Claim 1, said at least one reader device is placed in at least one complementary holster for said at least one security appliance.
4. A system according to Claim 2, said at least one mobile device further comprises a locator function, a receiver function, a transmitter function, a movement detector function, a guard tour logging function, a duress alarm function, a digital camera function, a radio frequency link function, a computer connectivity function and a biometric authentication function.

5. A system according to Claim 4 wherein at least one function of said at least one mobile device may be controlled remotely by a higher authority of said security officer.
6. A system according to Claim 3 wherein said at least one reader device continually polls said at least one security appliance to determine status of said at least one security appliance and to indirectly determine status of security officer carrying said at least one security appliance.
7. A system according to Claim 6 wherein said status of said at least one security appliance is transmitted by said at least one mobile device to a communications network of said system.
8. A system according to Claim 7 wherein said transmission of said status may be suppressed in predetermined safe zones.
9. A method of monitoring status of a security appliance carried by a security officer through the use of RFID tags, said method comprising:
 - polling, at regular intervals, at least one RFID tag associated with said at least one security appliance, by at least one reader device;
 - sending a signal from at least one reader device to said at least one mobile device when a response is not received from said at least one RFID tag polled; and
 - sending another signal from said at least one mobile device, thereby indicating status of said security appliance.
10. A method according to Claim 9, said sending of another signal from said at least one mobile device further comprises sending of information to a central computer and at least one other mobile device.

11. A method according to Claim 10, said information further comprises status and location of said security officer.
12. A method according to Claim 9, said status further defined by combination of said signal from said at least one reader device and said another signal from said at least one mobile device.
13. A method of conducting a security guard patrol tour using RFID tags in a security system, said method comprising:
 - a. verification of identity of security guard at start of tour;
 - b. registering of said security guard, list of security appliances and mobile device;
 - c. monitoring continually status of said security appliances and mobile device;
 - d. monitoring continually location of said guard;
 - e. logging of each check point visited;
 - f. determining, in real time, if said logging is valid;
 - g. transmitting, by said mobile device, logged checkpoints and other information to a communications network of a security system;
 - h. updating of information pertaining to tour to mobile device by a higher authority; and
 - i. repeating Step c until end of said tour.
14. A method according to Claim 13, said verification further comprises presentation of at least one security appliance with a unique RFID identity.
15. A method according to Claim 14, said verification further comprises use of biometric authentication function of said mobile device.

16. A method according to Claim 13, said monitoring of status of said security appliances further comprises polling of at least one RFID tag associated with said security appliances by at least one reader device in close proximity to said security appliances.
17. A method according to Claim 16, said monitoring further comprises sending of alert signals when said at least one RFID tag does not respond to said polling by said at least one reader device.
18. A method according to Claim 13, said monitoring of location of said security guard further comprises using a location function of said mobile device.
19. A method according to Claim 18, said location function of said mobile device comprises capability to use make use of Global Positioning System, Global System for Mobile Communications, or dedicated access points within area of said guard tour.
20. A method according to Claim 13, said determining in real time further comprises checking of each said logging, said checking further comprises verification of presence of a predetermined combination of security appliances carried by said guard and at least one RFID tag at said check point.
21. A method according to Claim 13, said updating of information further comprises changes to tour itinerary and new instructions to said security guard.